Title: BRANCH PREDICTOR WITH SATURATING COUNTER AND LOCAL BRANCH HISTORY TABLE WITH ALGORITHM FOR UPDATING REPLACEMENT AND HISTORY FIELDS OF MATCHING TABLE ENTRIES 1st Named Inventor: Vincent E. Hummel Application No.: 09/535,765 Docket No.: 42390P5567 Sheet: 1/4 Docket No.: 42390P5567 DEC 19 7005 - ACTUAL BRANCH DIRECTION ENTRY REPLACE HISTORY UPDATE 46 1202 HISTORY, REPLACEMENT COMBINATION LOGIC **PREDICTOR** 129 38 HISTORY₂ 124 HISTORY Mux € PREDICT 1 128 **LBHP 108 TAG**₂ HISTORY₁ HISTORY, REPLACEMENT, 129 TAG COMPARE 124 SCBP **TAG**₄ 128 INDEX **1**86 8 HASH

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1st Named Inventor: Vincent E. Hummel Application No.: 09/535,765 Sheet: 2/4 Docket No.: 42390P5567

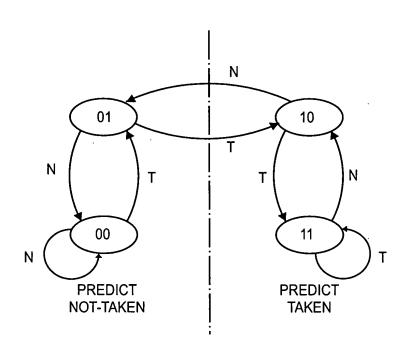
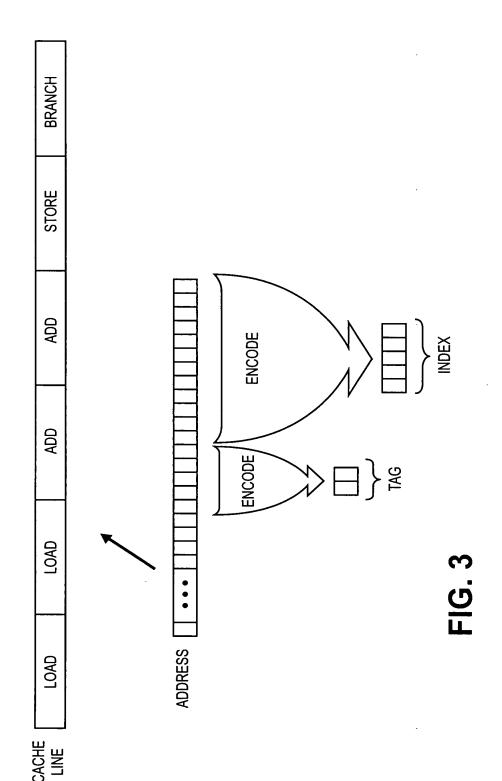


FIG. 2

BIĀKĒIŸ, SOKOIOTI, Laylor & Zatman LLP (310) 207-3800
Title: BRANCH PREDICTOR WITH SATURATING COUNTER AND LOCAL
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